

10/588304

JP20 Rec'd PCT/PTO 03 AUG 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :  
Motoyoshi MURAKAMI et al. : **Mail Stop: PCT**  
Serial No. NEW : Attorney Docket No. 2006\_1169A  
Filed August 3, 2006 :  
MAGNETIC RECORDING MEDIUM, AND :  
MANUFACTURING METHOD AND :  
MANUFACTURING APPARATUS OF THE :  
SAME, RECORDING AND :  
REPRODUCTION METHOD OF :  
MAGNETIC RECORDING MEDIUM, :  
AND RECORDING AND :  
REPRODUCTION APPARATUS OF :  
THE SAME :  
**[Corresponding to PCT/JP2005/003208**  
**Filed February 25, 2005]**

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

THE COMMISSIONER IS AUTHORIZED  
TO CHARGE ANY DEFICIENCY IN THE  
FEES FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☒ each U.S. Patent and U.S. Patent application publication;
- ☐ each reference previously cited in the international application PCT/\_\_\_\_\_; and/or
- ☐ each reference previously cited in prior parent application Serial No. \_\_\_\_\_.

ATTACHMENT D

- 1a. ☒ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, **or**

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

**and thus no certification and/or fee is required.**

- 1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

**the certification of paragraph 2 below is provided, and**

**the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.**

2. It is hereby certified

a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart

foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

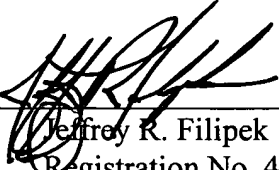
3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☐ a full or partial English language translation submitted herewith,
  - b. ☒ an International Search Report (in the English language) submitted herewith,
  - c. ☐ the concise explanation contained in the specification of the present application at page,
  - d. ☒ the concise explanation set forth in the attached English language abstract,
  - e. ☒ the concise explanation set forth below or on a separate sheet attached to the reference:

JP 6-290496 corresponds to US 6,399,174 and US 6,403,148  
JP 2001-256686 corresponds to US 6,802,073

5. ☒ an International Search Report citing one or more of the references is enclosed.

Respectfully submitted,

Motoyoshi MURAKAMI et al.

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August 3, 2006

## INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
(Use several sheets if necessary)

Date Submitted to PTO: August 3, 2006

ATTY DOCKET NO.  
2006\_1169ASERIAL NO.  
NEW

10/588304

APPLICANT  
Motoyoshi MURAKAMI et al.FILING DATE  
August 3, 2006

GROUP

AP20 Rec'd PCT/PTO 03 AUG 2006

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6,399,174	6-4-02	Shiratori et al.			
	AB	6,403,148	6-11-02	Shiratori et al.			
	AC	6,802,073	10-5-04	Takahashi et al.			
	AD						
	AE						
	AF						
	AG						
	AH						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AI	2001-250271	9-14-01	Japan			abstract
	AJ	2-185747	7-20-90	Japan			abstract
	AK	6-290496	10-18-94	Japan			abstract
	AL	2001-331972	11-30-01	Japan			abstract
	AM	2001-256686	9-21-01	Japan			abstract
	AN	11-345442	12-14-99	Japan			abstract

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	Kenji Yamamoto et al., "0.8-Numerical-Aperture Two-Element Objective Lens for the Optical Disk", Jpn. J. Appl. Phys. Vol. 36 (1997), pp. 456-459, Part 1, No. 1B, January 1997
	AP	
	AQ	

EXAMINER

DATE CONSIDERED